

DOCKET NO.: N0410.70000US00

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Lawrence F. Hancock et al.
Serial No.: 09/997,999
Confirmation No.: 3909
Filed: November 30, 2001
For: LUMINESCENT POLYMER PARTICLES

Examiner: Edward J. Cain
Art Unit: 1714

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to MAIL STOP AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 12 day of November, 2004.

Maureen [Signature]
Signature

MAIL STOP AMENDMENT
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 C.F.R. §§1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, the Applicants request consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. §1.97

This Information Disclosure Statement has been filed more than three months after the filing date of this application and after the mailing date of the first Office Action, but before the mailing date of either a final action under 37 C.F.R. §1.113 or a Notice of Allowance under 37 C.F.R. §1.311, or an action that otherwise closes prosecution in this application.

The fee of \$180 as set forth in 37 C.F.R. §1.17(p) is enclosed.

PART II: Information Cited

The Applicants hereby make of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicants hereby make the following additional information of record in the above-identified application.

1) The Applicants would like to bring to the Examiner's attention the following co-pending applications that may contain subject matter related to this application:

<u>Serial No.</u>	<u>Filing Date</u>	<u>Inventor(s)</u>
10/325,660	12-19-2002	Deans et al.

2) The Applicants would like to bring to the Examiner's attention the enclosed International Search Report from a corresponding International Application Serial No. PCT/US02/38321 (published as International Publication No. WO 2003/048226), issued by the ISA on December 12, 2003.

PART III: Explanation of Non-English Language References and Remarks Concerning Other Information Cited

The following is a concise explanation of the relevance of each non-English language reference listed on the attached form PTO-1449 (modified). The Applicants are not in possession of any English language translations of the enclosed non-English language references.

The relevance of DE 198 06 037 A 1 is indicated in the enclosed International Search Report from a corresponding International Application Serial No. PCT/US02/38321.

The relevance of DE 197 44 792 A 1 is indicated by the chemical structures and formulae disclosed throughout the document.

PART IV: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicants make no representation that a search has been performed, of the extent of any search performed, or that more relevant information does not exist.

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b).

By submitting this Information Disclosure Statement, the Applicants make no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.


An early and favorable action is hereby requested.

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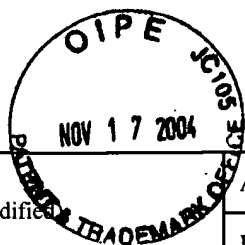
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Respectfully submitted,

By: 
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Date: November 12, 2004
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FORM PTO-1449/A and B (Modified)

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EXAMINER: Edward J. Cain

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U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		
		5,869,592		Gagne et al.	02/09/1999
		5,925,517		Tyagi et al.	07/20/1999
		6,020,426		Yamaguchi et al.	02/01/2000
		6,783,814	B2	Swager, et al.	08/31/2004
		US 2002/0040805	A1	Swager	04/11/2002
		US 2002/0150697	A1	Swager et al.	10/17/2002
		US 2003/0134959	A1	Hancock et al.	07/17/2003
		US 2003/0178607	A1	Swager et al.	09/25/2003
		US 2004/0043251	A1	Epstein et al.	03/04/2004
		US 2004/0121337	A1	Deans et al.	06/24/2004

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM/DD/YYYY	Translation (Y/N)
		Office/ Country	Number	Kind Code			
		DE	197 44 792	A1	Hoechst AG	04/15/1999	N
		DE	198 06 037	A1	Aventis Research & Technologies GmbH	08/19/1999	N
		EP	1 011 154	A1	Sony International (Europe) GmbH	06/21/2000	
		WO	89/00593		Memtec Limited	01/26/1989	
		WO	01/57140	A1	Massachusetts Institute of Technology	08/09/2001	
		WO	02/16463	A2	Massachusetts Institute of Technology	02/28/2002	
		WO	03/048226	A2	Nomadics, Inc.	06/12/2003	
		WO	2004/057014	A2	Nomadics, Inc.	07/08/2004	

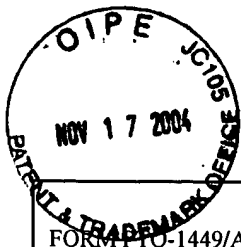
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*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]



FORM PTO-1449/A and B (Modified) INFORMATION DISCLOSURE STATEMENT BY APPLICANT				APPLICATION NO.: 09/997,999	ATTY. DOCKET NO.: N0410.70000US00
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OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
		Brabec, C. et al., "Plastic Solar Cells," <i>Adv. Funct. Mater.</i> , Feb. 2001 11:15-26, Wiley-VCH GmbH, Germany	
		Cotts, P. et al., "Equilibrium Flexibility of a Rigid Linear Conjugated Polymer," <i>Macromolecules</i> , 1996 29:7323-7328, Amer. Chem. Soc.	
		Chemical & Engineering News, "A Better Sensor for Nerve Gas," March 10, 2003, p. 12.	
		Deans, R. et al., "A Poly(p-phenyleneethynylene) with a Highly Emissive Aggregated Phase," <i>J. Am. Chem. Soc.</i> , 2000 122:8565-8566, Amer. Chem. Soc.	
		Fiesel R. et al., "Aggregation-induced CD effects in chiral poly(2,5-dialkoxy-1,4-phenylene)s," <i>Acta Polym.</i> , 1998 49:445-449, Wiley-VCH Verlag GmbH, Germany	
		Fiesel, R. et al., "A chiral poly(para-phenyleneethynylene) (PPE) derivative," <i>Macromol. Rapid Commun.</i> , 1998 19:427-431, Wiley-VCH Verlag GmbH, Germany	
		Fiesel, R. et al., "On the Solid State Aggregation of Chiral Substituted Poly(para-phenylene)s(PPPs)," <i>Synthetic Metals</i> , 1999 102:1457-1458, Elsevier Science S.A.	
		Goldfinger, et al., "Fused Polycyclic Aromatics via Electrophile-Induced Cyclization Reactions: Applications to the Synthesis of Graphite Ribbons," <i>J. Am. Chem. Soc.</i> , 1994 116:7895-7896, Amer. Chem. Soc.	
		S. Hoger et al., "Synthesis, Aggregation, and Adsorption Phenomena of Shape-Persistent Macrocycles with Extraannular Polyalkyl Substituents," <i>J. Am. Chem. Soc.</i> , 2001 123:5651-5659, American Chemical Society	
		Kim J. et al., "Ion-Specific Aggregation in Conjugated Polymers: Highly Sensitive and Selective Fluorescent Ion Chemosensors," <i>Angew. Chem. Int. Ed.</i> , 2000 39:3868-3872, Wiley-VCH Verlag GmbH, Germany	
		Kim, J. et al., "Control of conformational and interpolymer effects in conjugated polymers," <i>Nature</i> , June 2001 411:1030-1034, Macmillan Magazines Ltd.	
		Kim, J. et al., "Directing Energy Transfer within Conjugated Polymer Thin Films," <i>J. Am. Chem. Soc.</i> , 2001 123:11488-11489, American Chemical Society	
		Kim, J. et al., "Structural Control in Thin Layers of Poly(p-phenyleneethynylene)s: Photophysical Studies of Langmuir and Langmuir-Blodgett Films," <i>JACS Articles</i> , 2002 124:7710-7718, American Chemical Society	
		Kohler, B. et al., "Novel Chiral Macrocycles Containing Two Electronically Interacting Arylene Chromophores," <i>Chem. Eur. J.</i> , 2001 7:3000-3004, Wiley-VCH Verlag GmbH, Germany	

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		Langeveld-Voss, B.M.W. et al., "Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly {3,4-di[(S)-2-methylbutoxy]thiophene}," <i>J. Am. Chem. Soc.</i> , 1996 118 :4908-4909, American Chemical Society		
		Levitsky, I.A. et al., "Mass and Energy Transport in Conjugated Polymer Langmuir-Blodgett Films: Conductivity, Fluorescence, and UV-Vis Studies," <i>Macromolecules</i> , 2001 34 :2315-2319, American Chemical Society		
		McQuade, D.T. et al., "Conjugated Polymer-Based Chemical Sensors," <i>Chem. Rev.</i> , 2000 100 :2537-2574, American Chemical Society		
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		Mitschke, U. et al., "The electroluminescence of organic materials," <i>J. Mater. Chem.</i> , 2000 10 :1471-1507, The Royal Society of Chemistry		
		Moon, J.H. et al., "Capture and detection of a quencher labeled oligonucleotide by poly(phenylene ethylene) particles," <i>Chem. Commun.</i> , 2003 104-105, Royal Society of Chemistry		
		Norvez S. et al., "Epitaxylens: mesomorphic properties of triptycene derivatives," <i>Liquid Crystals</i> , May 1993 14 :1389-1395, Taylor & Francis Ltd.		
		Oda M. et al., "Circularly-Polarized Electroluminescence from Liquid-Crystalline Chiral Polyfluorenes," <i>Adv. Mater.</i> , 2000 12 :362-365, Wiley-VCH Verlag GmbH, Germany		
		Oda M. et al., "Chiroptical properties of chiral-substituted polyfluorenes," <i>Synthetic Materials</i> , 2000 111-112 :575-577, Elsevier Science S.A.		
		Peeters, E. et al., "Circularly-Polarized Electroluminescence from a Polymer Light-Emitting Diode," <i>J. Am. Chem. Soc.</i> , 1997 119 :9909-9910, American Chemical Society		
		Yang, J. et al., "Porous Shape Persistent Fluorescent Polymer Films: An Approach to TNT Sensory Materials," <i>J. Am. Chem. Soc.</i> , 1998 120 :5321-5322, American Chemical Society		
		Yang, J. et al., "Anomalous crystal packing of iptycene secondary diamides leading to novel chain and channel networks," <i>Tetrahedron Letters</i> , 2000 41 :7911-7915, Elsevier Science Ltd.		
		Zhang, S. et al., "Fluorescent Detection of Chemical Warfare Agents: Functional Group Specific Ratiometric Chemosensors," <i>J. Am. Chem. Soc.</i> , 125 :3420, (March 2003)		
		Zhang, S. et al., Supplemental Information at http://pubs.acs.org/subscribe/journals/jacsat/supinfo/-ja029265z/ja029265zsi20030125_030500.pdf (March 2003)		
		"Institute for Soldier Nanotechnologies," slides (http://web.mit.edu/isn/industryday/index/html)		
		International Search Report for International Application Serial No. PCT/US2002/38321 (published as International Publication No. WO 2003/048226), issued by the ISA on December 12, 2003		

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